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Concerns, 2005 Auto Repair For Dummies Collection of Tractor-trailer Activity Data Advanced Microsystems for Automotive Applications 2000 ROS Robotics Projects Systems, Software and Services Process Improvement Development of an Engine Testing Facility Capable of Simulating Dynamic Engine Operation in UC Davis Hybrid Electric Vehicles Experimental Facilities and Engine Studies for a Parallel Hybrid Electric Vehicle Collection of Activity Data from On-road Heavy-duty Diesel Vehicles How to Build Max-Performance Mitsubishi 4G63t Engines GB 18352.6-2016: Translated English of Chinese Standard. GB18352.6-2016 The 30th SIAR International Congress of Automotive and Transport Engineering Patent Engineering How to Tune and Modify Motorcycle Engine Management Systems Automotive Control Systems Cyber-Physical Security Performance Automotive Engine Math How to Use and Upgrade to GM Gen III LS-Series Powertrain Control Systems

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This book focuses on the vulnerabilities of state and local services to cyber-threats and suggests possible protective action that might be taken against such threats. Cyber-threats to U.S. critical infrastructure are of growing concern to policymakers, managers and consumers. Information and communications

technology (ICT) is ubiquitous and many ICT devices and other components are interdependent; therefore, disruption of one component may have a negative, cascading effect on others. Cyber-attacks might include denial of service, theft or manipulation of data. Damage to critical infrastructure through a cyber-based attack could have a significant impact on the national security, the economy, and the livelihood and safety of many individual citizens. Traditionally cyber security has generally been viewed as being focused on higher level threats such as those against the internet or the Federal government. Little attention has been paid to cyber-security at the state and local level. However, these governmental units play a critical role in providing services to local residents and consequently are highly vulnerable to cyber-threats. The failure of these services, such as waste water collection and water supply, transportation, public safety, utility services, and communication services, would pose a great threat to the public. Featuring contributions from leading experts in the field, this volume is intended for state and local government officials and managers, state and Federal officials, academics, and public policy specialists. This book reflects the latest research trends, methods and experimental results in the field of electrical and information technologies for rail transportation, which covers abundant state-of-the-art research theories and ideas. As a vital field of research that is highly relevant to current developments in a

number of technological domains, the subjects it covered include intelligent computing, information processing, Communication Technology, Automatic Control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academicians as well as industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies. Engineers and researchers in academia, industry, and the government will also explore an insight view of the solutions that combine ideas from multiple disciplines in this field. The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation, electrical and information technologies. Written by two of the most respected, experienced and well-known researchers and developers in the field (e.g., Kiencke worked at Bosch where he helped develop anti-breaking system and engine control; Nielsen has lead joint research projects with Scania AB, Mecel AB, Saab Automobile AB, Volvo AB, Fiat GM Powertrain AB, and DaimlerChrysler. Reflecting the trend to optimization through integrative approaches for engine, driveline and vehicle control, this valuable book enables control engineers to understand engine and vehicle models necessary for controller design and also introduces mechanical engineers to vehicle-specific signal processing and automatic control. Emphasis on measurement, comparisons between

performance and modelling, and realistic examples derive from the authors' unique industrial experience . The second edition offers new or expanded topics such as diesel-engine modelling, diagnosis and anti-jerking control, and vehicle modelling and parameter estimation. With only a few exceptions, the approaches Build exciting robotics projects such as mobile manipulators, self-driving cars, and industrial robots powered by ROS, machine learning, and virtual reality Key FeaturesCreate and program cool robotic projects using powerful ROS librariesBuild industrial robots like mobile manipulators to handle complex tasksLearn how reinforcement learning and deep learning are used with ROSBook Description Nowadays, heavy industrial robots placed in workcells are being replaced by new age robots called cobots, which don't need workcells. They are used in manufacturing, retail, banks, energy, and healthcare, among other domains. One of the major reasons for this rapid growth in the robotics market is the introduction of an open source robotics framework called the Robot Operating System (ROS). This book covers projects in the latest ROS distribution, ROS Melodic Morenia with Ubuntu Bionic (18.04). Starting with the fundamentals, this updated edition of ROS Robotics Projects introduces you to ROS-2 and helps you understand how it is different from ROS-1. You'll be able to model and build an industrial mobile manipulator in ROS and simulate it in Gazebo 9. You'll then gain insights into handling

complex robot applications using state machines and working with multiple robots at a time. This ROS book also introduces you to new and popular hardware such as Nvidia's Jetson Nano, Asus Tinker Board, and Beaglebone Black, and allows you to explore interfacing with ROS. You'll learn as you build interesting ROS projects such as self-driving cars, making use of deep learning, reinforcement learning, and other key AI concepts. By the end of the book, you'll have gained the confidence to build interesting and intricate projects with ROS. What you will learnGrasp the basics of ROS and understand ROS applicationsUncover how ROS-2 is different from ROS-1Handle complex robot tasks using state machinesCommunicate with multiple robots and collaborate to build apps with themExplore ROS capabilities with the latest embedded boards such as Tinker Board S and Jetson NanoDiscover how machine learning and deep learning techniques are used with ROSBuild a self-driving car powered by ROSTeleoperate your robot using Leap Motion and a VR headsetWho this book is for If you're a student, hobbyist, professional, or anyone with a passion for learning robotics and interested in learning about algorithms, motion control, and perception capabilities from scratch, this book is for you. This book is also ideal for anyone who wants to build a new product and for researchers to make the most of what's already available to create something new and innovative in the

field of robotics. Microsystems are an important success factor in the automobile industry. In order to fulfil the customers' requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. With the international conference AMAA 2000, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers. Looks at the combustion basics of fuel injection engines and offers information on such topics as VE equation, airflow estimation, setups and calibration, creating timing maps, and auxiliary output controls. Patents are a vital asset in the modern business world. They allow patent holders to introduce new products in to a market while deterring other market players from simply copying innovative features without making comparable investments in research and development. In years past, a few patents may have provided adequate protection. That is no longer the case. In today's world, it is critical that innovative companies protect the features of their products that give them a competitive advantage with a family or portfolio of patents that are strategically generated to protect the market position of the patent holder. A patent portfolio that deters competitors from introducing competitive

products in a timely manner can be worth billions of dollars. Anything less than this is an expensive and possibly fatal distraction. This book provides a strategic framework for cost efficient engineering of patent portfolios that protect your investments in research and development and that extend the market advantages that these investments provide. Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 6: Vehicle Electronics focuses on: •Engine/Chassis/Body Electronic Control •Electrical and Electronic System •Software and Hardware Development •Electromagnetic Compatibility (EMC) •Vehicle Sensor and Actuator •In-Vehicle Network •Multi-Media/Infotainment System Above all researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering and electronic engineering will benefit from this book. SAE-China is a national academic organization composed of enterprises and professionals who focus on research, design and education in the fields of automotive and related industries. FISITA is the umbrella organization for the

national automotive societies in 37 countries around the world. It was founded in Paris in 1948 with the purpose of bringing engineers from around the world together in a spirit of cooperation to share ideas and advance the technological development of the automobile. Tuning engines can be a mysterious art, all engines need a precise balance of fuel, air, and timing in order to reach their true performance potential. Engine Management: Advanced Tuning takes engine-tuning techniques to the next level, explaining how the EFI system determines engine operation and how the calibrator can change the controlling parameters to optimize actual engine performance. It is the most advanced book on the market, a must-have for tuners and calibrators and a valuable resource for anyone who wants to make horsepower with a fuel-injected, electronically controlled engine. [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the emission limits and test methods for gaseous and particulate pollutants as emitted by the vehicles equipped with compression ignition engine and its engines, as well as the emission limits and test methods for gaseous pollutants emitted from the ignition engine vehicles and its engine which use natural gas (NG) or liquefied petroleum gas (LPG) as fuel. Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together

in a book designed for automotive enthusiasts. This book walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to hard measurements reflected in various engine parts. Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder. "Thoroughly updated and expanded, 'Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems, Second Edition' offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology, including distributed electronic control systems, energy-saving technologies, and automated driver-assistance systems. Now organized by outcome-based objectives to improve instructional clarity and adaptability and presented in a more readable format, all content seamlessly aligns with the latest ASE Medium-Heavy Truck Program requirements for MTST." --Back cover. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. A guide to understanding, modifying, programming, and

tuning Accel's programmable digital fuel injection system, this book includes sections on Basic Management Theory and Components, Fuel Flow Dynamics, the ECU and Emissions Compliance, Matching Intake Manifold to Engine, Choosing the Proper Accel/DFI ECU, and more. Automotive systems engineering addresses the system throughout its life cycle, including requirement, specification, design, implementation, verification and validation of systems, modeling, simulation, testing, manufacturing, operation and maintenance. This book is the fourth in a series of four volumes on this subject and features 12 papers, published between 2002-2009, that address the challenges and importance of systems approach in system verification and validation, stressing the use of advanced tools and approaches. Topics covered include: Systems integration and verification Software engineering in future automotive systems development Configuration management of the model-based design process A comprehensive collection of benchmarks for measuring dependability in hardware-software systems As computer systems have become more complex and mission-critical, it is imperative for systems engineers and researchers to have metrics for a system's dependability, reliability, availability, and serviceability. Dependability benchmarks are useful for guiding development efforts for system providers, acquisition choices of system purchasers, and evaluations of new concepts by researchers in academia and industry.

This book gathers together all dependability benchmarks developed to date by industry and academia and explains the various principles and concepts of dependability benchmarking. It collects the expert knowledge of DBench, a research project funded by the European Union, and the IFIP Special Interest Group on Dependability Benchmarking, to shed light on this important area. It also provides a large panorama of examples and recommendations for defining dependability benchmarks. Dependability Benchmarking for Computer Systems includes contributions from a credible mix of industrial and academic sources: IBM, Intel, Microsoft, Sun Microsystems, Critical Software, Carnegie Mellon University, LAAS-CNRS, Technical University of Valencia, University of Coimbra, and University of Illinois. It is an invaluable resource for engineers, researchers, system vendors, system purchasers, computer industry consultants, and system integrators. [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the emission limits and measurement methods for exhaust emissions at normal temperature and low temperature, real driving emission (RDE) exhaust emissions, crankcase pollutants, evaporative emissions, and refueling pollutants, as well as the technical requirements and measurement methods for the pollutant control device durability and on-board

diagnostics (OBD) systems of light-duty vehicles which are equipped with ignition type engine. Focusing on the vehicle's most important subsystems, this book features an introduction by the editor and 40 SAE technical papers from 2001-2006. The papers are organized in the following sections, which parallel the steps to be followed while building a complete final system: Introduction to Safety-Critical Automotive Systems Safety Process and Standards Requirements, Specifications, and Analysis Architectural and Design Methods and Techniques Prototyping and Target Implementation Testing, Verifications, and Validation Methods Computers as Components: Principles of Embedded Computing System Design, Fifth Edition continues to focus on foundational content in embedded systems technology and design while updating material throughout the book and introducing new content on machine learning and Internet-of-Things (IoT) systems. Uses real processors to demonstrate both technology and techniques Shows readers how to apply principles to actual design practice Stresses necessary fundamentals that can be applied to evolving technologies and helps readers gain facility to design large, complex embedded systems Covers the design of Internet-of-Things (IoT) devices and systems, including applications, devices and communication systems and databases Describes wireless communication standards such as Bluetooth® and ZigBee® Introduces a new chapter on machine

learning applications, techniques and edge intelligence "Fundamentals of Medium/Heavy Duty Diesel Engines, Second Edition offers comprehensive coverage of every ASE task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking. This edition describes safe and effective diagnostic, repair, and maintenance procedures for today's medium and heavy vehicle diesel engines"-- The General Motors G-Body is one of the manufacturer's most popular chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and modifications for a wide range of high-performance applications, from drag racing to road racing. Many of the vehicles GM produced using this chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate all the best-possible equipment is thoroughly covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs most popular modern engine-the LS-Series V-8-are all covered in great detail. The

aftermarket support for this chassis is huge, and the interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can afford and readily modify. There is also great information for use when shopping for a G-Body, including what areas to be aware of or check for possible corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and this book will serve as the bible to G-Body enthusiasts for years to come. The new Dodge Charger, Challenger, and other LX-platform cars bring modern V-8 performance to unparalleled heights, and the new Challenger and Charger Hellcats are the most powerful American production cars today. The outrageous performance and audacious styling has earned a large and dedicated following. However, you can tune and modify the Chrysler 300, Dodge Magnum, Charger, and Challenger for more performance, and for many owners, fast is not fast enough. In the pursuit of a higher-performing LX-platform car, former Mopar Muscle editor Randy Bolig has created this book to show you how to extract ultimate performance from these cars. Chrysler has built more than one million Chargers, Challengers, and other full-size-platform cars starting with the Dodge Magnum and Chrysler 300. These cars offer competent handling, braking, and suspension performance, but they can be made much better through a set of targeted upgrades using better

aftermarket equipment. Bolig gives you a comprehensive guide to the cars and engines. He details the features, benefits, and drawbacks of each package or set of upgrades, so you select the best modification for your car, application, and budget. He also covers basic to extreme modifications for the R/T and SRT8 models with the 5.7-, 6.1-, and 6.4-liter Hemi engines. Guidance for installing heads, rotating assemblies, ignition upgrades, higher-performance injectors, and many other parts are provided. But, this book doesn't just discuss performance; it shows you how to do it with comprehensive, step-by-step product installs for a cat-back exhaust system, hand-held ignition tuner, cold-air intake, and supercharger. If you have been searching for the best performance package to make your Charger, Challenger, or full-size Chrysler car stand out from the crowd, you need this book. It has the latest information, so you can learn how to install all the products and get your car back out on the road. A Comprehensive, Proven Approach to Securing All Your Network Endpoints! Despite massive investments in security technology and training, hackers are increasingly succeeding in attacking networks at their weakest links: their endpoints. Now, leading security expert Mark Kadrich introduces a breakthrough strategy to protecting all your endpoint devices, from desktops and notebooks to PDAs and cellphones. Drawing on powerful process control techniques, Kadrich shows how to systematically

prevent and eliminate network contamination and infestation, safeguard endpoints against today's newest threats, and prepare yourself for tomorrow's attacks. As part of his end-to-end strategy, he shows how to utilize technical innovations ranging from network admission control to "trusted computing." Unlike traditional "one-size-fits-all" solutions, Kadrich's approach reflects the unique features of every endpoint, from its applications to its environment. Kadrich presents specific, customized strategies for Windows PCs, notebooks, Unix/Linux workstations, Macs, PDAs, smartphones, cellphones, embedded devices, and more. You'll learn how to: • Recognize dangerous limitations in conventional endpoint security strategies • Identify the best products, tools, and processes to secure your specific devices and infrastructure • Configure new endpoints securely and reconfigure existing endpoints to optimize security • Rapidly identify and remediate compromised endpoint devices • Systematically defend against new endpoint-focused malware and viruses • Improve security at the point of integration between endpoints and your network Whether you're a security engineer, consultant, administrator, architect, manager, or CSO, this book delivers what you've been searching for: a comprehensive endpoint security strategy that works. From electronic ignition to electronic fuel injection, slipper clutches to traction control, today's motorcycles are made up of much

more than an engine, frame, and two wheels. And, just as the bikes themselves have changed, so have the tools with which we tune them. How to Tune and Modify Motorcycle Engine Management Systems addresses all of a modern motorcycle's engine-control systems and tells you how to get the most out of today's bikes. Topics covered include: How fuel injection works Aftermarket fuel injection systems Open-loop and closed-loop EFI systems Fuel injection products and services Tuning and troubleshooting Getting more power from your motorcycle engine Diagnostic tools Electronic throttle control (ETC) Knock control systems Modern fuels Interactive computer-controlled exhaust systems Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this $34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and

maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs. Explores how the automotive industry can address the increased risks of cyberattacks and incorporate security into the software development lifecycle While increased connectivity and advanced software-based automotive systems provide tremendous benefits and improved user experiences, they also make the modern vehicle highly susceptible to cybersecurity attacks. In response, the automotive industry is investing heavily in establishing cybersecurity engineering processes. Written by a seasoned automotive expert with abundant international industry expertise, Building Secure Cars: Assuring the Software Development Lifecycle

introduces readers to various types of cybersecurity activities, measures, and solutions that can be applied at each stage in the typical automotive development process. This book aims to assist auto industry insiders build more secure cars by incorporating key security measures into their software development lifecycle. Readers will learn to better understand common problems and pitfalls in the development process that lead to security vulnerabilities. To overcome such challenges, this book details how to apply and optimize various automated solutions, which allow software development and test teams to identify and fix vulnerabilities in their products quickly and efficiently. This book balances technical solutions with automotive technologies, making implementation practical. Building Secure Cars is: One of the first books to explain how the automotive industry can address the increased risks of cyberattacks, and how to incorporate security into the software development lifecycle An optimal resource to help improve software security with relevant organizational workflows and technical solutions A complete guide that covers introductory information to more advanced and practical topics Written by an established professional working at the heart of the automotive industry Fully illustrated with tables and visuals, plus real-life problems and suggested solutions to enhance the learning experience This book is written for software development process owners, security policy owners,

software developers and engineers, and cybersecurity teams in the automotive industry. All readers will be empowered to improve their organizations' security postures by understanding and applying the practical technologies and solutions inside. How to Build Max-Performance Mitsubishi 4G63 Engines covers every system and component of the engine, including the turbocharger system and engine management. More than just a collection of tips and tricks, however, this book includes a complete history of the engine and its evolution, an identification guide, and advice for choosing engine components and other parts, including bolt-ons and transmission and drivetrain upgrades. Profiles of successful built-up engines show the reader examples of what works and helpful guidance for choosing the path of their own engine build. Ideal for students, entry-level technicians, and experienced professionals, the fully updated Sixth Edition of MEDIUM/HEAVY DUTY TRUCK ENGINES, FUEL & COMPUTERIZED MANAGEMENT SYSTEMS is the most comprehensive guide to highway diesel engines and their management systems available today. The new edition features expanded coverage of natural gas (NG) fuel systems, after-treatment diagnostics, and drive systems that rely on electric traction motors (including hybrid, fuel cell, and all-electric). Three new chapters address electric powertrain technology, and a new, dedicated chapter on the Connected Truck addresses telematics, ELDs,

and cybersecurity. This user-friendly, full-color resource covers the full range of commercial vehicle powertrains, from light- to heavy-duty, and includes transit bus drive systems. Set apart from any other book on the market by its emphasis on the modern multiplexed chassis, this practical, wide-ranging guide helps students prepare for career success in the dynamic field of diesel engine and commercial vehicle service and repair. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Artificial Intelligence and Innovations (AIAI) will interest researchers, IT professionals and consultants by examining technologies and applications of demonstrable value. The conference focused on profitable intelligent systems and technologies. AIAI focuses on real world applications; therefore authors should highlight the benefits of AI technology for industry and services. Novel approaches solving business and industrial problems, using AI, will emerge from this conference. This proceedings book includes papers that cover the latest developments in automotive vehicles and environment, advanced transport systems and road traffic, heavy and special vehicles, new materials, manufacturing technologies and logistics and advanced engineering methods. Authors of the papers selected for this book are experts from research, industry and universities, coming from different countries. The overall objectives

of the presentations are to respond to the major challenges faced by the automotive industry, and to propose potential solutions to problems related to automotive technology, transportation and environment, and road safety. The congress is organized by SIAR (Society of Automotive Engineers from Romania) in cooperation with SAE International. The purpose is to gather members from academia, industry and government and present their possibilities for investigations and research, in order to establish new future collaborations in the automotive engineering and transport domain. This proceedings book is just a part of the outcomes of the congress. The results presented in this proceedings book benefit researchers from academia and research institutes, industry specialists, Ph.D. students and students in Automotive and Transport Engineering programs. The fifth volume of the Series Advances in Systems, Signals and Devices, is dedicated to fields related to Systems, Automation and Control. The scope of this issue encompasses all aspects of the research, development and applications of the science and technology in these fields. Topics of this issue concern: system design, system identification, biological and economical models & control, modern control theory, nonlinear observers, control and application of chaos, adaptive/non-adaptive backstepping control techniques, advances in linear control theory, systems optimization, multivariable

control, large scale and infinite dimension systems, nonlinear control, distributed control, predictive control, geometric control, adaptive control, optimal and stochastic control, robust control, neural control, fuzzy control, intelligent control systems, diagnostics, fault tolerant control, robotics and mechatronics, navigation, robotics and human-machine interaction, hierarchical and man-machine systems, etc. Authors are encouraged to submit novel contributions which include results of research or experimental work discussing new developments in the field of systems, automation and control. The series can be also addressed for editing special issues for novel developments in specific fields. The aim of this volume is to promote an international scientific progress in the fields of systems, automation and control. It provides at the same time an opportunity to be informed about interesting results that have been reported during the international SSD conferences. This volume constitutes the refereed proceedings of the 22st EuroSPI conference, held in Ankara, Turkey, in September/October 2015.The 18 revised papers presented together with 9 selected key notes and workshop papers were carefully reviewed and selected from 49 submissions. They are organized in topical sections on SPI themed case studies; SPI approaches in safety-critical domains; SPI in social and organizational issues; software process improvement best practices; models and optimization approaches in

SPI; SPI and process assessment; creating environments supporting innovation and improvement; social aspects of SPI: conflicts, games, gamification and other social approaches; risk management and functional safety management.

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